

CT - TRCC



*Safety Data
System*



Workzone Safety Month

Workzone Safety Month



Better Workzone Data through MMUCC E-Crash Reporting

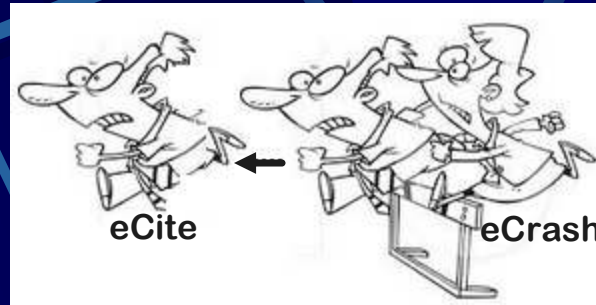


☆☆ TRCC Meeting ☆☆

9:30am – 11:00am / Conf Room G328 - ConnDOT Hdqts
April 15, 2014



Finish Line:
**Statewide
Implementation**



CVSA Workshop
Lifesavers Nat'l Conference
CPCA Expo

- * **Ongoing Projects: Safety Data Improvements**
Electronic (e)Crash - **CSP and CRCOG**, Electronic (e)Citation - **JUD**
 - * **Projects/Plans: CDIP Team - Crash Data Initiatives**
MMUCC4 - PR1 Training Dev, eCrash RFP, Pilot Testing, Law Enf Outreach
 - * **Law Enforcement's Perspective**
 - ✓ Timeliness of new eCrash reporting; accessibility of data at the CDR/TSRC
 - eCitation - A boost for LEAs implementing; hopefully helping to leverage eCrash
 - * **Proposed New 9th Year 405c Projects**
eCrash - eCitation - eData linkage - Crash / EMS / Trauma / CHIME (Hospital) info exchange
- Performance Measures:**
- ✓ Backlog of crash data added to DOT database
 - Accessibility - Online access to CDR

* **Next TRCC Mtg - Tuesday, May 20 - Save the Date**

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CVSD Input to CDIP

CVSA WORKSHOP

Building a Brighter Future



April 6-10, 2014 | Los Angeles, CA

REGISTER NOW

[Home](#)

[Program Schedule](#)

[Hotel, Travel & General Information](#)

[Registration Fees](#)

Quality, Uniformity and Consistency in CMV Safety and Enforcement

The annual CVSA Workshop is designed to help stakeholders—government officials, enforcement and industry—continue their work together to advance commercial vehicle safety and security. This is your chance to collaborate with your colleagues from all across North America to affect meaningful changes to the overall culture of transportation safety.

This year's CVSA Workshop features pre-workshop programs on some of the topics that are front of mind for our industry right now. Plan to come to Los Angeles a few days early to participate in these highly focused education and networking meetings...

- [North American Cargo Securement Harmonization Public Forum](#)—April 7
- [Information Systems Users Workshop](#)—April 6-7
- [IRP & IFTA Training Sessions](#)—April 7

NATIONAL CONFERENCE ON HIGHWAY SAFETY PRIORITIES

LIFESAVERS



2014

APRIL 27-29, 2014

GAYLORD OPRYLAND HOTEL
NASHVILLE, TENNESSEE

INVITED U.S. SECRETARY OF TRANSPORTATION ANTHONY FOXX



Traffic Records Training

FOR STATE HIGHWAY SAFETY OFFICE LEADERSHIP

- ➔ **What are TR Info Systems?**
- ➔ **TR - Why are they important?**
- ➔ **Funding TR Sys Improvements**
- ➔ **Data Analysis Resources**
- ➔ **FARS System**
- ➔ **NHTSA Resources**



➔ www.ghsa.org/html/resources/tr/ - to download

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Ongoing Projects

Safety Data System



**Section 405C
Safety Data
Improvements**

8th Year Traffic Records Initiatives

- Electronic Crash
- Electronic Citation /
Statewide System
- ECitation Starts/Expansion
 - * State Law Enforcement
 - * Local Law Enforcement

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8th Year Sect 405c

Application for 2013 - 2014

Safety Data Improvements

*Safety Data
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State of Connecticut

Strategic Plan
for

Traffic Records

July 2013



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Connecticut - Traffic Records Coordinating Committee

Combination/Continuation 7th Year

Electronic Crash and Citation Reporting Projects
impacting State and Local Law Enforcement and
Judicial Branch

- * E-Crash State Police
- * E-Crash Capitol Region Council of Governments
- * E-Citation Central Infractions Bureau
- * E-Citation - State Law Enforcement
- * E-Citation - Local Law Enforcement

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Electronic Crash

PR-1 / MMUCC PR-1

Connecticut State Police

Safety Data
System



Case #: 0600000437

Accident Responding Units Crime Analysis Use of Force AWOL/Missing Person Admin

Incident Offenses People Vehicles Property Reports/Forms Case Management Cad Remarks

CPS #: 0600000437 CFS PD: 0600000437 CFS FD: CFS AMB: CFS DA:

Initiates PR-1 Data Capture Process

03/01/2006 Time: 10:39 Thru Date: 03/01/2006 Time: 00:00 Date Reported: 03/01/2006 Time Reported: 10:39

Division #: Agency: TRDPE Agency #: 0600000437

Rel-Division #: Case X-Ref #: Town Code: 014

TRAFFIC ACCIDENT WITH INJURIES Act Cell Type: TRAFFIC ACCIDENT WITH INJURIES Domestic Related: ☐

Sub Type: SERIOUS INJURY Shift:

- **Electronic (E) Crash** – part of Law Enforcement Administration System (LEAS)
- **1st Year ('07) NHTSA Funding** – to transfer electronic PR-1 Data to ConnDOT
- **E-Crash and E-Citation** – fields filled in from CAD
- **Tab Based** – different tabs for accident-people-vehicle-damage-narrative-etc.
- **In-Car Reporting** – electronic PR-1 reporting for many years
- **Direct Transfer to Crash Data Repository (CDR)** – past few years
- **Field Pilot Test for new MMUCC / PR-1** – June?

Talk about later
under Timeliness



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Electronic Crash

MMUCC PR-1

Capitol Region Council of Governments

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MUCCTown Police Welcome, Bozak, David

My Work **Applications** **Search** **Report**

My Current Work List **Query** **Notifications/Reminders**

App	Number	Report Type	Date Time	Location	Status	Comments
	CR-2013000008	Property Damage Only	11/05/2013 08:00	5 Main St, Essex, CT 06426	Data Entry in Progress	
	CR-2013000011	Personal Injury	11/11/2013 11:50	Berlin Tpke, Newington, CT 06111	Survey In Progress	

- **Electronic (E) Crash** – component of CT:Chief Records Mgmt System
- **E-Crash and E-Citation** – initial Apps in FY '06-'07 for CT:Chief
- **Temp Host Newington PD** – long range Host / CJIS / CISS
- **Field Pilot Test** – CT:Chief RMS pilot test – June?
- **Installation of Heartbeat CAD** – integrates 911, Mobile Data comm, AVL, GIS, other
- **Coordination of CJIS, OSET** – on the use / connection of PSDN fiber system
- **Move and Installation of LPR** – regional License Plate Reader System
- **Standalone E-Crash** – thick client version can be routed to CISS then to local RMS



Electronic Citation Judicial Central Infractions Bureau



COMPLAINT TICKET
NEW BRITAIN
11-TESTCASE
089

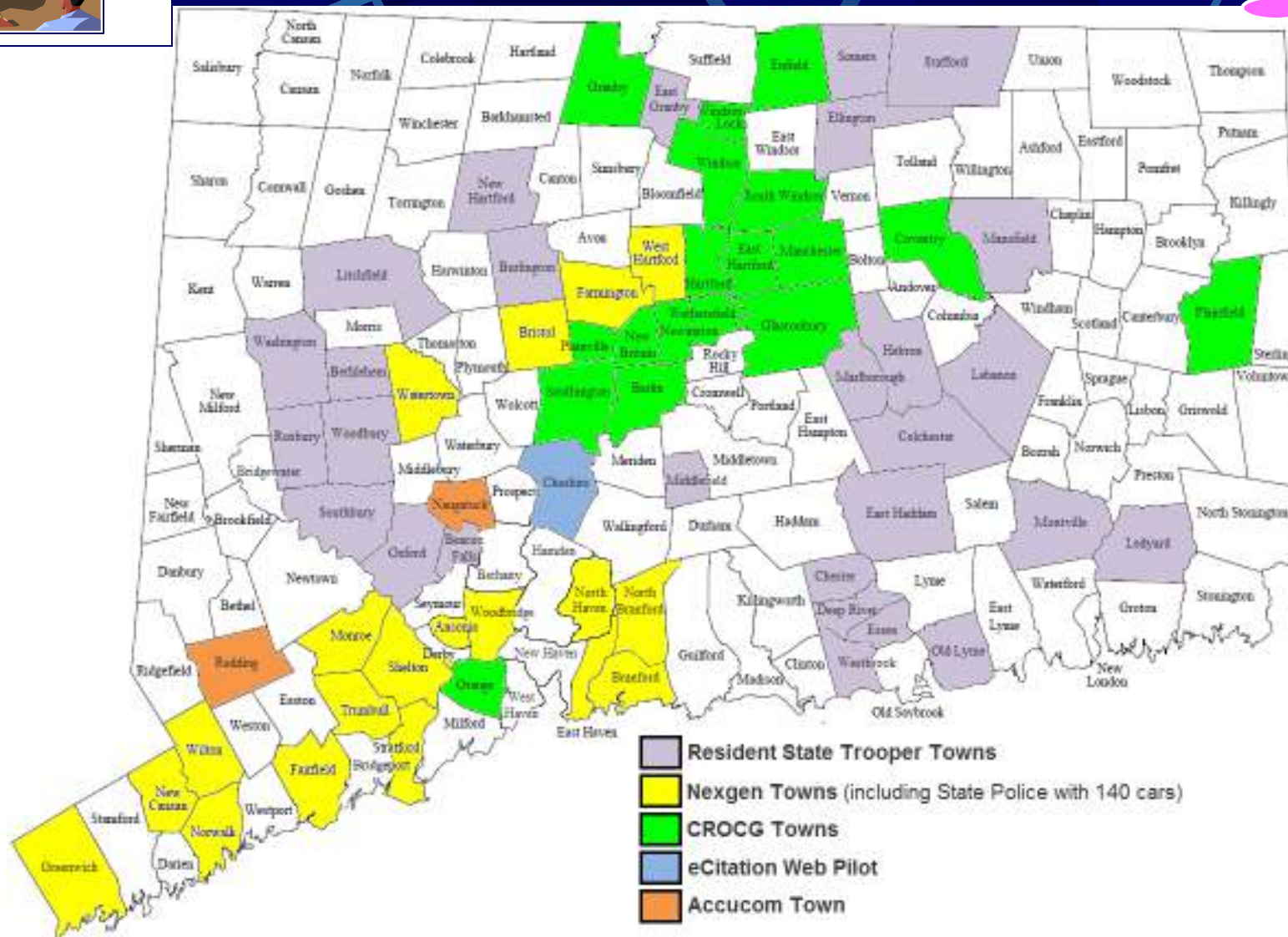
Math
Timeliness
Fine Amounts
Legibility
Statutes

- **Web Interface** – continue enhancements of e-Citation web version from Phase IV
- **Citation Data Extracts** – to LEAs to enable in-house recordkeeping and reporting
- **Interface with DMV** – refine web product to interface with DMV
- **LEAs** – enhancements requested by pilot departments / RMS / e-Citation / e-Crash
- **Expand Pilot(s)** – goal / statewide integration of e-Citations
- **Informational Seminars** – provide for LEAs / options for participating in e-Citation
- **Broaden User Base** – printer / crash, summons, parking tickets, warnings, profiling
- **Hardware** – purchase as necessary for increased number of e-Citations at CIB



E-Citation Map

Safety Data System





Database for eCitation Info

Judicial

eCitation and PD Lookup

Agency Lookup

Greenwich

Agency Info

Greenwich Police Department

PD Phone 203-622-8000

Records Dept Info

Phone 203-622-8025

Fax

Officer Info

Officer ID

Officer Name

Officer Title

Officer Status

Officer Email

Officer Phone

Officer Fax

Officer Address

Officer City

Officer State

Officer Zip

Officer Birthdate

Officer Birthplace

Officer Education

Officer Experience

Officer Training

Officer Certification

Officer License

Officer Insurance

Officer Vehicle

Officer Equipment

Officer Notes

eCitation Inventory

Towns Receiving Printers

- * Number of traffic officers
- * Number of traffic officers issuing eCitations
- * Number of printers received
- * Number of printers being used
- * eCitation software

Navigation Pane

Contact

Timothy

Interface

Record: 1 of 1

Filtered

Search

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Ongoing Projects

Safety Data System



**Crash Data
Initiatives
CDIP**

MMUCC4 – PR1 Rollout

- * MMUCC4 – PR1
- * PR1 – Training Development
- * E-Crash RFP
- * Pilot Testing
- * Law Enforcement Outreach



Crash Data Improvement

MMUCC PR-1

Safety Data System



DOT Specs Package, Edit Rules,
xml schema, fillable pdf copy PR-1
form
Paper Form, User Manual On DOT
Web site

DOT
**digital roadway linear
reference map project**

Purchase of
diagramming tool
development of
State mapping tool

**E Crash
Reporting :**

- **CRCOG Web based E-Crash Pilots**
- **NEXGEN e-crash upgrade**
- **RMS Vendor Upgrades**
- **PDF and paper form**

Front end Tool

**Back End
Software; OIS
Import Program,
Extract Program,
CAS II
Development**

**Program Coordination
DOT CDIP Team**

UConn TSRC

UConn and DOT Coders

**UConn
MMUCC
4.0 CDR**

**MMUCC 4.0 data
processing,
PR-1 data
analysis query
tools, fact
sheets/maps**

**PR-1 Training
Materials and
basic, in service
and roll call
training**

**Technology
Planning
Workshops
by CPCA
Region**

**Monitor progress
in CISS, racial
profiling, and e-
citation projects
for integration
opportunities**

**Backlog Management
legacy PR-1 backlog = 6
months**

**Fiber Optic
Network and
Web Services**

- **NHTSA GO Team Analysis**
- **UConn Coding Local Road PDOs**

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Law Enforcement Perspective

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**Traffic Records
Issues &
Initiatives**

Timeliness of new eCrash Reporting

Last Month's Topic - eCitation



Traffic Records Program Assessment Advisory

U.S. Department of Transportation
National Highway Traffic Safety
Administration



Timeliness of Crash Reporting



Connecticut GO Team

Crash Data Transition Management

Prepared for:
Connecticut Department of Transportation

Prepared by:
Robert A. Scopatz, Ph.D.
VHB, Inc.

and

Jack Benac
Jack D. Benac, LLC

Under Contract with:
Millennium Services Two Thousand Plus

Sponsored by:
National Highway Traffic Safety Administration



U.S. Department
of Transportation
National Highway
Traffic Safety
Administration



(DOT HS 811 441)

February 2011

Model Performance Measures for State Traffic Records Systems



Timeliness of Crash Reporting



Crash Database

Timeliness - Definition

C-T-1: The median or mean number of days from (a) the crash date to (b) the date the crash report is entered into the database.

C-T-2: The percentage of crash reports entered into the database within xx days after the crash; e.g., 30, 60 or 90



Timeliness of Crash Reporting



Crash Database

Timeliness - Feedback to Law Enforcement
Timeliness - Needs of Users

Question: Is there performance reporting that provides specific timeliness feedback to each law enforcement agency?

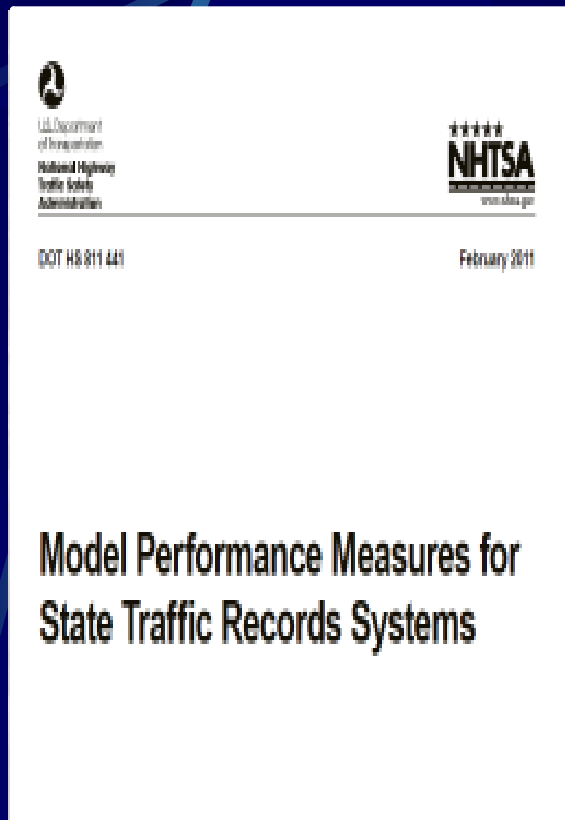
- Rank: very important.

Question: Are there timeliness performance measures tailored to the needs of data managers and data users?

- Rank: very important.
- 30-60-90 days?



Timeliness of Crash Reporting



Crash Database

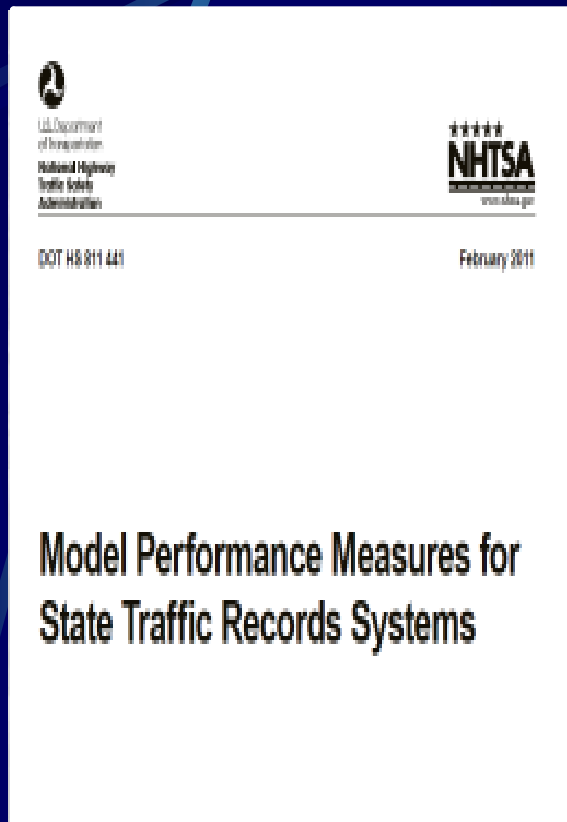
Timeliness - Definition

Timeliness reflects the span of time between the occurrence of an event and entry of information into the appropriate database.

Timeliness can also measure the time from when the custodial agency receives the data to the point when the data is entered into the database.



Timeliness of Crash Reporting



Crash Database

Tradeoff - Timeliness & Completeness

Tradeoffs between timeliness and completeness:
Generally speaking, the relationship between timeliness and completeness is inversely proportional: the more timely the data, the less complete it is and vice versa.

This is because many data files have records or data elements added well past the date of the event producing the record, so the files may be incomplete when the performance measure is calculated.

State Police Crash Data – slide #8 – Direct transfer of electronic crash data to UConn – past few years

- How timely?
- How complete?



Timeliness of Crash Reporting



Connecticut GO Team

Crash Data Transition Management

Prepared for:
Connecticut Department of Transportation

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Under Contract with:
Millennium Services Two Thousand Plus

Sponsored by:
National Highway Traffic Safety Administration

12/16/2013

Crash Database

Parallel Flow of Crash Data to UConn

Data from law enforcement agencies (LEAs) will be forwarded to UConn, as is planned for all MMUCC data in 2014.

As an option, the State will still be able to accept MMUCC-compliant data at UConn and continue to operate beyond January 2015, if circumstances dictate.



Timeliness of Crash Reporting



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12/16/2013

Crash Database

Timeliness of LEA Response

The timeliness of law enforcement agency responses to error correction requests in the crash report – links to Advisory (slide 18) re. performance reporting that provides specific timeliness feedback to each LEA?

Parallel Flow of Crash Data to UConn

Presently, CTDOT allows pass-through from data entry any property-damage-only (PDO) crash that is purely local (i.e., has no intersection with a State route) and has a non-zero milepoint. Those crash reports account for about 25-30% of the volume.

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Law Enforcement Perspective



State Police All Troopers E-Citations

- Matter of getting printers installed

E-Citation Getting to Statewide (*quicker*)

Local Law Enforcement

Multiple Ongoing Initiatives

NexGen Towns - Same as CSP
Resident Trooper Towns - CSP
Capital Region COGovmt Towns
Web Pilot - New World Sys
Citation - Crash - Profiling Pilot
Other Local LEA Apps

Safety Data System



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New/Ongoing Projects

Safety Data System



**Section 405C
Safety Data
Improvements**

9th Year Traffic Records Initiatives

- Electronic Crash
- Electronic Citation
- Emergency Medical Services (CEMSTARS DL)
- Performance Measure

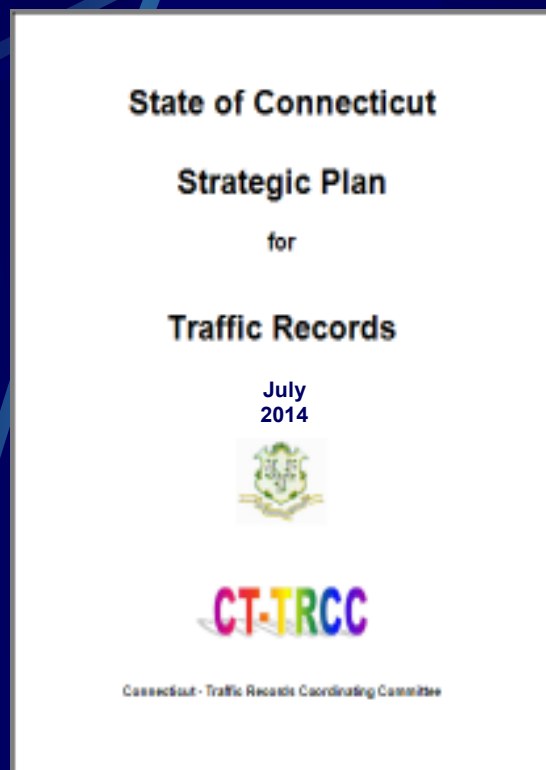


2014 Strategic Plan

Performance Measure

Focus for 9th Year Application – Crash Backlog

Safety Data System



Crash

Driver

Vehicle

Roadway

Citation/
Adjudication

Health/
Injury Control



Timely

Accurate

Complete

Uniform

Integrated

Accessibility



9th Yr - 405C Projects



For FY 2014-2015



Traffic Records Strategic Planning

1	Rollout of Electronic Crash Statewide
2	Rollout of Electronic Citation Statewide
3	Office of EMS CODES (Crash Outcome) Data Linkage Initiative
4	
5	Continue Efforts to Link TR Data at TSRC
6	Continue to Enhance Accessibility/ Analysis of Data at TSRC
7	Ensure Standard Event Location Application is Developed / Adopted
8	-

Lay Groundwork for a Nat'l TR Forum in Connecticut/New England

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CEMSTARS DL

**Tracking Patient
From Injury – to Hospital Discharge**

*Safety Data
System*



**Better
analysis
of
patient
outcome**



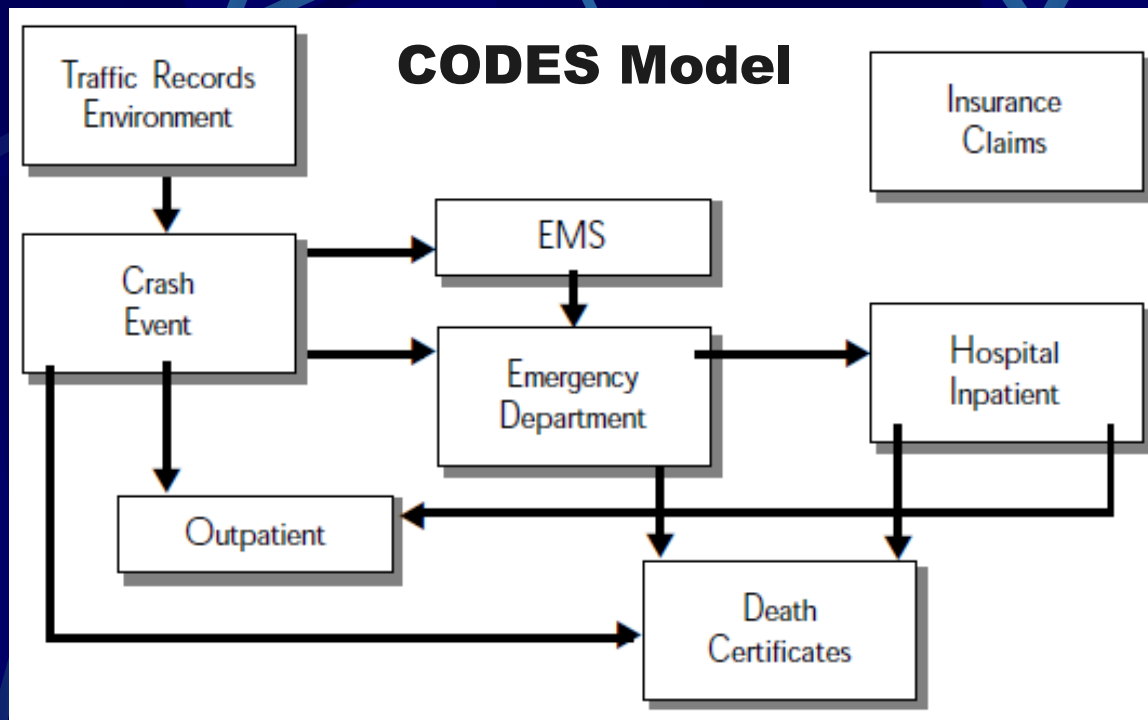
**In terms of
mortality,
injury,
severity &
health care
cost**

*** Crash * Pre-Hospital EMS * Trauma * Hospital Information & Mgmt Exchange**



Crash Outcome Data

Probabilistic Linkage



States link available crash, EMS, emergency department, hospital discharge, insurance, and other traffic records data.

Analyses is performed using the linked data to support each state's highway safety problem ID, planning/policies, and program management.

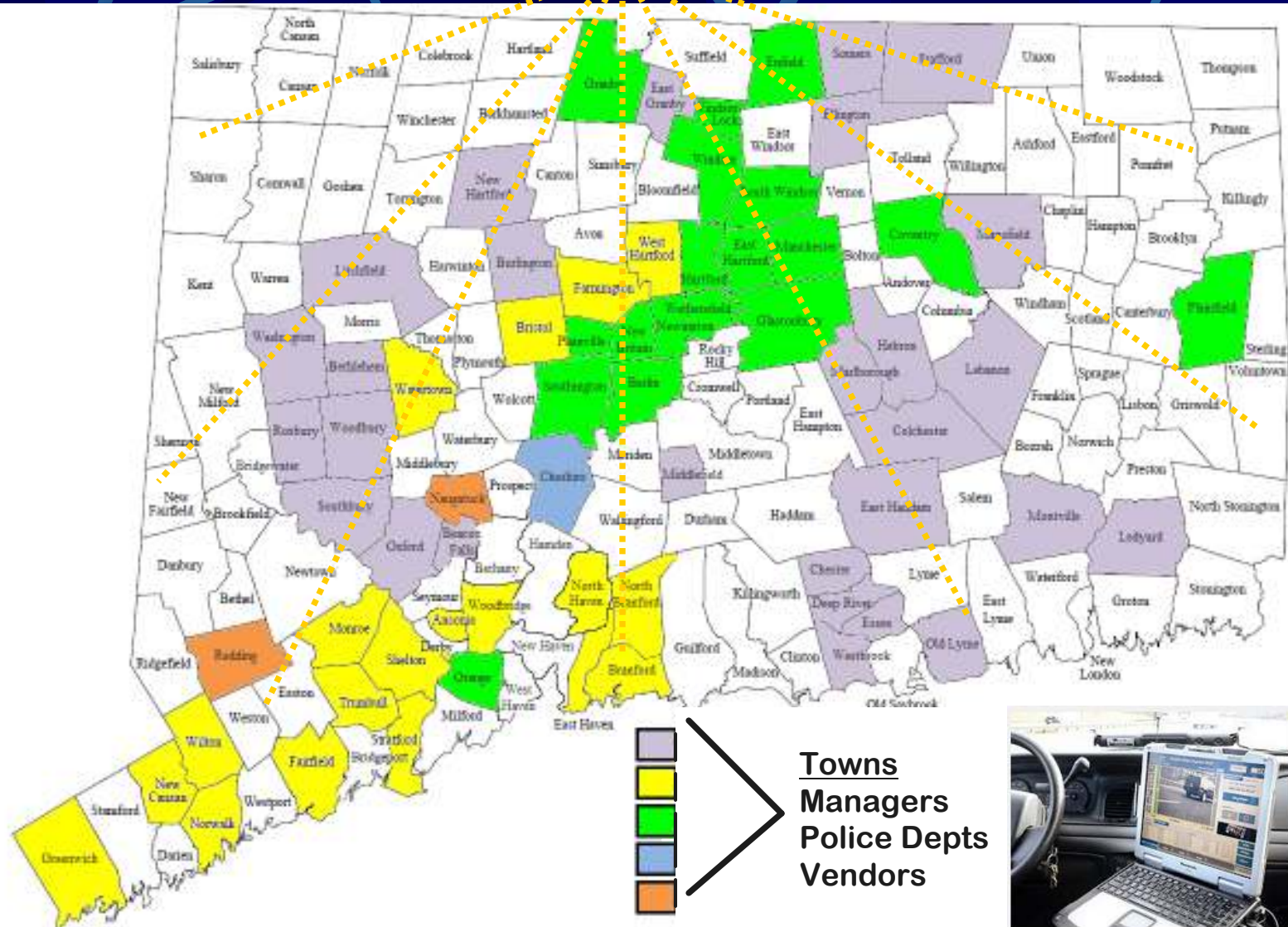
✓ For probabilistic linkage, date, time, geographic location and type of vehicle are commonly used to discriminate among crashes; while –

Date of birth (or age), sex, person type (driver, passenger, rider), vehicle number in crash, injury type, injury severity (KABCO) are used to discriminate among the persons involved in a crash.



Electronic(e)Crash Statewide

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Law Enforcement

**Safety Data
System**



**Importance of
Converting all
in-Car Reporting
to Electronic**

**Motor Vehicle Crash
Traffic Citation
Warning
Summons
Incident Report
Other Reporting**

Getting to Complete Electronic Reporting

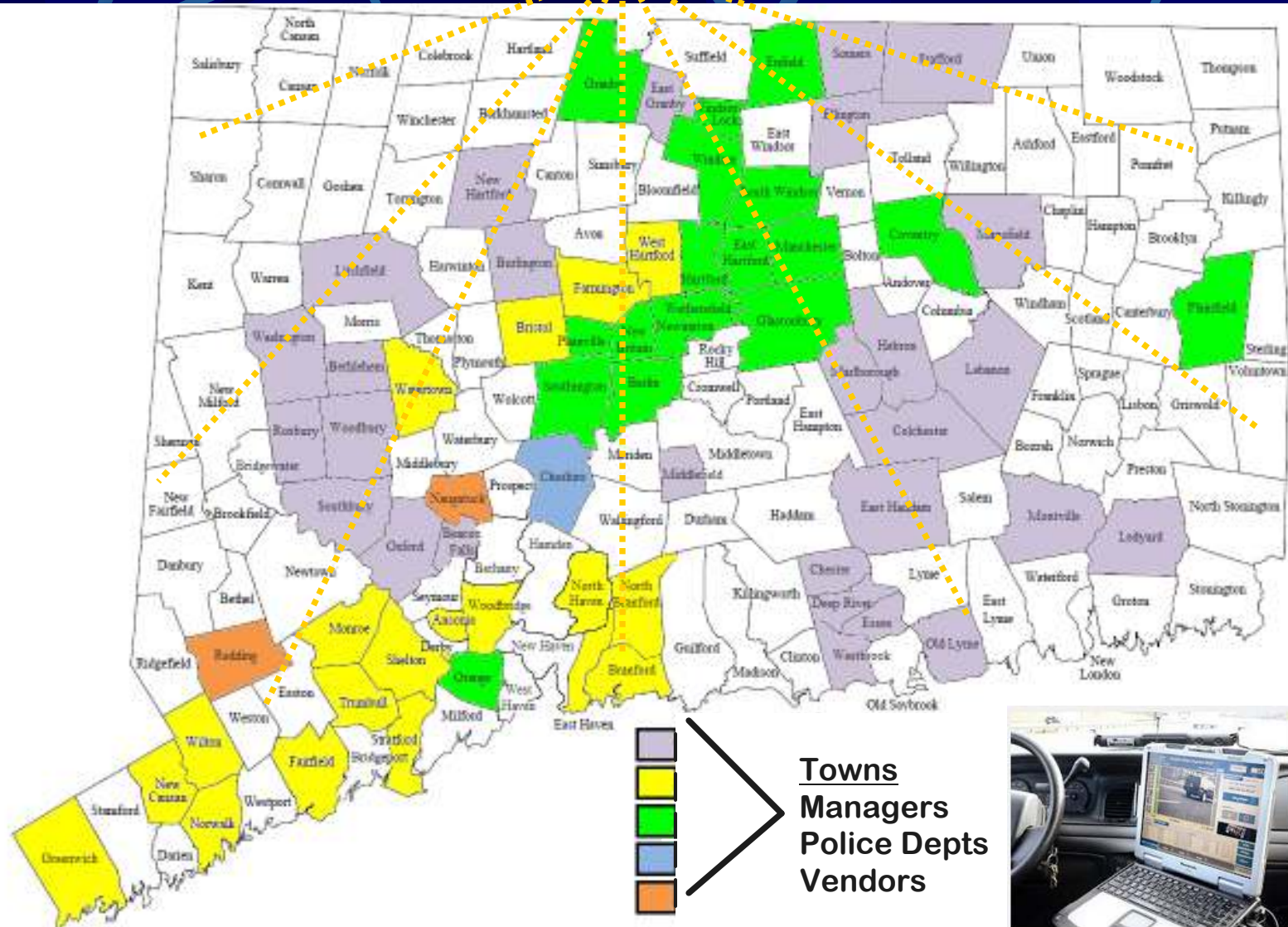
Multiple Ongoing Initiatives

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Electronic(e)Citation Statewide

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System*



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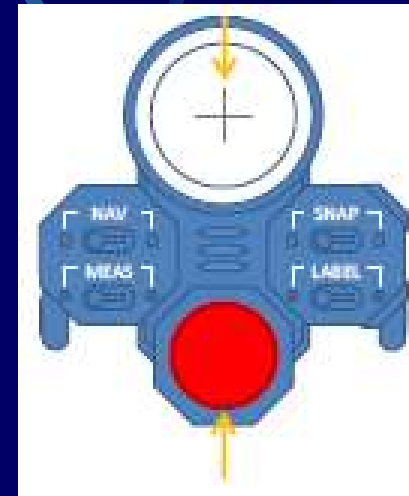
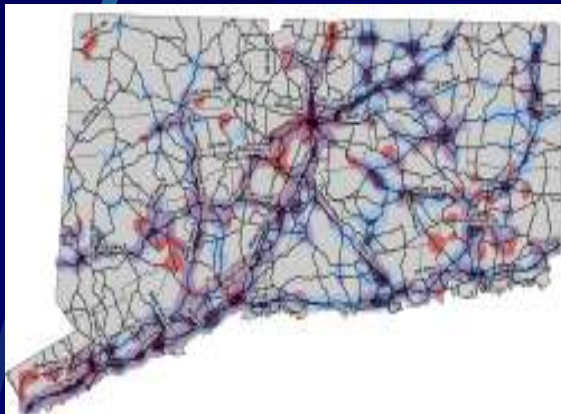
Incident Location

DDACTS

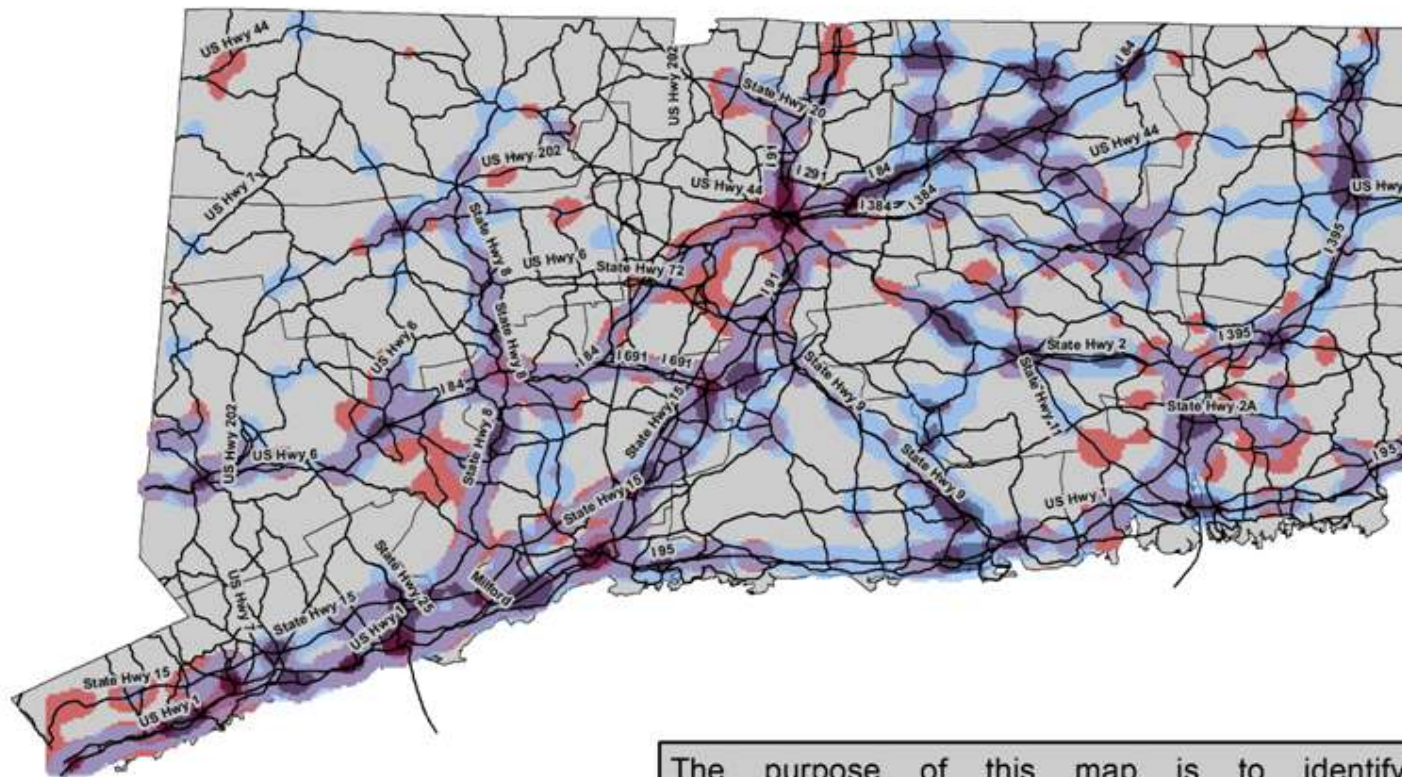


Locating a Crash

Incident Locator Tool



Safety Data System



The purpose of this map is to identify the areas where traffic enforcement and traffic accidents are occurring. The hot spots for Traffic Accidents are in red and the hot spots for Traffic Stops are in blue. The darkest areas represent where accidents and enforcement intersect.

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LOCATING a Crash

Discussion from October TRCC Meeting

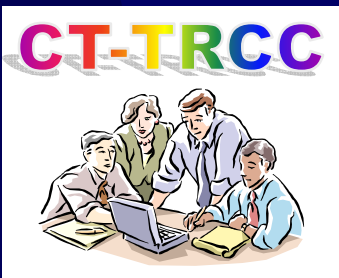
*Safety Data
System*



Locating the First Harmful Event in a Motor Vehicle Crash

- 1 - Geo Locate - We use the mouse pointer to identify a location on the map.
- 2 - Look Up - A specific address can be entered as a location.
- 3 - Current Location - The current GPS coordinates of the vehicle - used
- 4 - Correcting a GPS reading in the field?
- 5 - Meets the needs of most stakeholders?



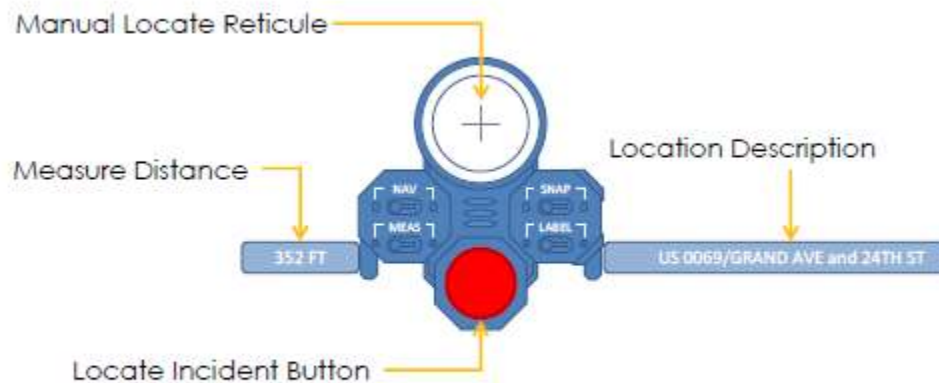
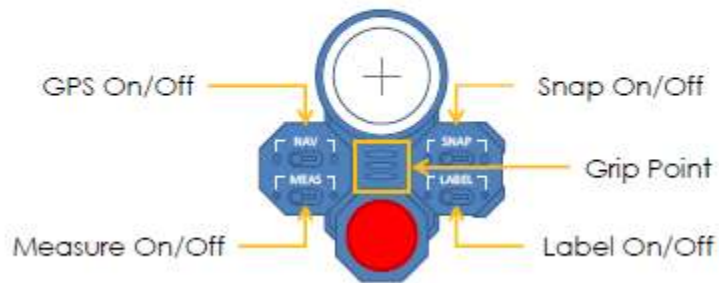


Incident Locator Tool (ILT)

Associated with *TraCS System



Incident Location Tool



Locating the First Harmful Event (FHE) in a MV Crash

1. Officer can move ILT or GPS can guide the tool
2. Auto-detects GPS on any Serial Port
3. GPS along side Snapping yields high location accuracy
4. Snap tolerance – distance from tool location to corrected location of FHE

ILT developed by Iowa State University

*Traffic & Criminal Software System



Strategic Planning

Performance Measures

Safety Data System



9th Year App Performance Measure(s)

- Timeliness – Backlog of Crash Data added to DOT DB ✓
 - * Submitted to NHTSA for review
 - * Continue to review Accessibility
Online Direct Access to CDR



Traffic Records Strategic Planning



Specification of how the Measure is calculated / estimated	Narrative Description of Calculation / Estimation Method	
	Number of months from the report of a motor vehicle crash by both State and Local law enforcement to entry into the ConnDOT database, beginning the time period April-March 2013, compared to number of months from the report of a crash to entry into the ConnDOT database, ending the period April-March 2014.	
Date and Baseline Value for the Measure	Number of Months From Report of a Crash to Entry Into ConnDOT Database April 1, 2012 to March 31, 2013	
		Total
	Number of Months from the Report of a Motor Vehicle Crash to Entry into the ConnDOT Database	12 Months
Date and Current Value for the Measure	Number of Months From Report of a Crash to Entry Into ConnDOT Database April 1, 2013 to March 31, 2014	
		Total
	Number of Months from the Report of a Motor Vehicle Crash to Entry into the ConnDOT Database	6 Months



Crash Data Repository – CDR/TSRC

PR-1 Crash Report Data Accessible 2008 - 2014



DPS Reported Crashes

3 ('08) / 31,118 ('11)
24 ('09) / 35,544 ('12)
4,232 ('10) / 28,641 ('13)
361 ('14)



Complete
PR-1 Data



Crash Repo A (DPS)

DOT Uploaded Crashes

104,187 ('08) / 78,435 ('11)
103,710 ('09) / 95,452 ('12)
101,621 ('10) / ('13)
('14)



One third
PR-1 Data



Crash Repo B (DOT)

All State and Local Law Enforcement

('14)
('15)

Complete
MMUCC Data
Required 2015



MMUCC CRASH Repo

DOT Uploaded Crashes
('15)

*Old
Paper
PR-1*

***Historical
Data***

***New
MMUCC
PR-1***

Local Road PDO Crashes – Excluded from DOT totals ('11)

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Traffic Records Strategic Planning

**Safety Data
System**



**TRCC
Website**



Department Of Transportation Traffic Records Coordinating Committee

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www.ct.gov/dot Click – Hwy Safety Programs

[Message to Stakeholders Read This First](#)

[TRCC Meeting](#)

[CDIP Update](#)

[MMUCC PR-1 E-Crash](#)

[E-Citation](#)

[2014 Strategic Plan](#)

[Traffic Records Assessment 2012](#)

[TRCC Stakeholders](#)

[Traffic Records Website Links](#)

Ongoing - 2014 Plan Due July 1st

**New E-Crash
Website**



New Website Link

Archived Materials:

[Traffic Records Assessment 2007](#)

[Traffic Records Advisory 2006](#)

[Traffic Records Strategic Plan 2006](#)

[Traffic Records Strategic Plan Appendices 2006](#)

[Crash Data Collection Initiatives Main Page](#)
[Return to Highway Safety Programs Page](#)

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Traffic Records Strategic Planning

**Safety Data
System**



**Other
TR Topics**



Electronic Crash & Citation



<http://publicsafety.utah.gov/highwaysafety/crashcitation.html>

Utah Department of Public Safety

The State just passed a law mandating electronic reporting and is revising its user manual to be completely electronic for instructional purposes

Home / Highway Safety /

Highway Safety -
Crash/Citation Help and Training

CRASH & CITATION TRAINING & HELP

This page is the new home for Utah crash and citation training and help.

Highway Safety

- Highway Safety Home
- Crash Entry Help**
- News Room
- Publications
- Programs
- Statistics
- Staff
- Contact
- Alcohol Program

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Questions

Safety Data
System

